

Appl. No. 09/871,993
Amdt. dated July 11, 2003
Reply to Office Action of April 9, 2003

REMARKS

Applicants hereby acknowledge the Examiner Interview between the Examiner, Dinh, Tuan T., and Attorney for Applicants, Serge J. Hodgson, on July 10, 2003. Co-filed herewith is a completed Applicant Initiated Interview Request Form PTOL-413A, which was faxed to the Examiner on July 10, 2003, prior to the Examiner interview, and completed by the Attorney for Applicants following the Examiner Interview.

Agreement was reached that the drawing satisfy 37 CFR 1.83(a) and 1.84(p)(4) and that the objection to the drawings will be withdrawn. Further, agreement was reached that Claims 1-8 satisfy 35 U.S.C. 112, first paragraph and that this rejection would be withdrawn in light of the clarifying amendment of Claim 1 set forth herein. Claims 1-8 as allowable over Wetzell in view of Berg et al. was discussed.

The specification has been amended to correct obvious typographical errors and to add clarity as discussed below under headings 1 and 2/3.

In amended FIG. 1 and 2, the legend "PRIOR ART" has been added. A Request for Approval of Drawing Correction with this proposed change was filed on November 27, 2002.

In amended FIG. 5, the term "intothe" associated with the element 43 has been amended to read --into the--.

The headings below are numbered to correspond with the heading numbering used by the Examiner.

1) Objection to the Drawings.

The Examiner states:

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "a main tray, a first tray, and a second tray, claim 1, line 3" and "conductive wire 132 and a substrate 133 not shown in figures 1-2" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "20" has been used to designate "main tray, first tray, and second tray".

The drawings do not clear to define theses elements of "main, first, and second trays" ... (Office Action, page 2, emphasis in original.)

The Examiner's statement is respectfully traversed. Applicants submit that the specification clearly recites that three separate trays are used. Further, the specification sets forth that these three separate trays are similar to the tray 20 illustrated in FIG. 2. Accordingly, "every feature of the invention specified in the claims" is illustrated in the figures and reference character 20 properly refers to a single exemplary tray.

Specifically, at page 6, lines 7 to 15 as originally filed, the specification recites:

Such tray 20 has a plurality of accommodating grooves 21, and each accommodation groove 21 penetrates the tray 20, and the surface area of the upper opening is approximately equal to that of the image sensing chip 10 and the surface area of the lower opening is slightly smaller than that of the upper opening, so that each of the same type of components (glass board 11, carrier 12, and printed circuit board 13) are accommodated into individual trays for processing. (Emphasis added.)

Further, at page 8, line 21 to page 10, line 8 as originally filed, the specification recites:

The printed circuit board 13, the carrier 12, and the glass plate 11 are put into the main tray, the first tray, and the second tray as in Steps 41, 42, and 43 respectively ... After putting the carrier 12 into the first tray, ... and then performing the step 421 to take each carrier 12 to the main tray either manually or by vacuum. ... After the glass plate 11 is put into the second tray, ... Then we proceed with the overturning step 432 for each glass plate 11, so that the surface with the dispenser faces downward, and we can go ahead

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with the step 433 by taking it to the main tray either manually or by vacuum. (Emphasis added.)

Further, as previously indicated by Applicants, at page 6, lines 15 to 24 as originally filed the specification recites:

Hereafter, the description of the specification will use the following terms "main tray", "first tray" and "second tray" without numbering to indicate the tray 20. Please take the present invention for example, a plurality of printed circuit boards 13 are placed into a main tray (because it is unnecessary to remove the print circuit board 13 during the entire manufacturing process), a plurality of carriers 12 into a first tray, and a plurality of glass plates 11 into a second tray.

Accordingly, the specification makes clear that the same type of tray 20 is used for each of the main tray, first tray, and second tray. For purposes of clarity, the paragraph extending from page 6, line 4 to page 7, line 4 has been amended consistent with the above discussion. This amendment is supported at least by the specification as quoted above. Thus, "every feature of the invention specified in the claims" is illustrated in the figures.

Further, with respect the "conductive wire 132 and a substrate 133", these elements are illustrated in FIG. 3.

For at least the above reasons, the drawings satisfy both 37 CFR 1.83(a) and 1.84(p)(4).

For the above reasons, Applicants request reconsideration and withdrawal of this objection.

2/3) Claims 1-8 satisfy 35 U.S.C. 112, first paragraph.

The Examiner states:

... The specification is silent regarding "a main tray, a first tray, and a second tray" claim 1, line 3. ... How can one tray (tray 20) can be perform in three trays (main, first, and second trays)? (Office Action, page 3, emphasis in original.)

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As discussed above under heading 1, the specification makes clear that the same type of tray 20 is used for each of the main tray, first tray, and second tray. Thus, the subject matter of Claims 1-8 is described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. Accordingly, Claims 1-8 satisfy 35 U.S.C. 112, first paragraph.

For the above reasons, Applicants respectfully request reconsideration and withdrawal of this rejection.

4/5) Claims 1-8 are patentable over Wetzel in view of Berg et al.

Claim 1 presently recites:

A packaging process for an image sensing component of which comprising a printed circuit board, a carrier, and a glass plate; wherein said printed circuit board is placed in a main tray, said carrier is placed in a first tray, and said glass plate is placed in a second tray for the packaging process, comprising:

performing a rinsing process on said printed circuit board, said carrier, and said glass plate in said main tray, said first tray, and said second tray respectively as a pre-treatment;

dispensing said printed circuit board, and then capturing said carrier in said first tray onto said printed circuit board of said main tray;

performing a thermal pressing process and an adhering process on said printed circuit board and said carrier;

dispensing said glass plate, and then collecting said carrier in said first tray to said printed circuit board of said main tray; and

adhering said glass plate onto said carrier by thermal pressing in the high-pressure working environment. (Emphasis added.)

With respect to Claim 1, under Response to Arguments at page 5 of the Office Action, the Examiner states:

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... examiner assumed the "main, first, and second trays" which is one tray, Wetzel discloses tray (12, column 3, line 19) for the PCB mounted onto. (Emphasis added.)

The Examiner's statement is respectfully traversed. In stark contrast, Claim 1 recites "a main tray", "a first tray" and "a second tray" as three separate element. As quoted above, the Examiner admits that Wetzel does not teach or disclose "a main tray", "a first tray" and "a second tray" as three separate element. Berg et al. does not cure this glaring deficiency of Wetzel. Accordingly, Claim 1 is allowable over Wetzel in view of Berg et al. Claims 2-8, which depend from Claim 1, are allowable for at least the same reasons as Claim 1.

For the above reasons, Applicants respectfully request reconsideration and withdrawal of this rejection.

As to 37 CFR 1.116.

Claims 1-3 have been amended for purposes of clarity only and for reasons unrelated to patentability in this Amendment. Therefore, entry of this Amendment requires neither consideration of new issues nor a new search. Further, this Amendment places the application in a condition for allowance. Therefore, entry of this Amendment is appropriate under rule 116. If the Examiner should disagree, the Examiner is requested to enter the Amendment to narrow the issues on appeal.

Conclusion

Claims 1-8 are pending in the application. For the foregoing reasons, Applicants respectfully request allowance of all pending claims.

If the Examiner has any questions relating to the above,

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the Examiner is respectfully requested to telephone the undersigned Attorney for Applicants.

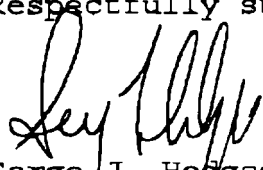
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I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office, Fax No. 703-305-1341 on the date shown below.


Jan O'Dell

July 11, 2003
Date of Signature

Respectfully submitted,


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